Docket No.: 800738-0009

AMENDMENTS TO THE CLAIMS:

Claims 1 and 2: (Canceled):

3. (Previously presented): A method according to claim 23, wherein the analysis

comprises calculation of the rate of change in the reducing milk flow rate in order to determine

step changes in the milk flow rate.

4. (Previously presented): A method according to claim 23, wherein the

predicted stepped reduction in the milk flow rate includes four step changes corresponding to the

milk flow from respective teats falling at the end of milking.

Claim 5: (Canceled):

6. (Previously presented): A method according to claim 25, wherein a ratio of

the peak flow duration to the peak flow rate is calculated and selecting the animal for medical

inspection is dependent on the calculated ratio value exceeding a predicted value.

7. (Previously presented): A method according to claim 25, wherein the peak

flow rate and the duration at the peak flow rate are respectively compared with predicted values,

the animal being selected for medical inspection when the peak flow rate departs significantly

from the predicted peak flow rate but the peak flow duration remains within acceptable limits of

the predicted peak flow duration.

Claim 8: (Canceled):

9. (Previously presented): A method according to claim 23, wherein the

predicted relationship between the milk flow rate and the time from commencement of milking

Docket No.: 800738-0009

for an animal is derived from data collected during one or more previous milkings of the same

animal.

Claims 10 and 11: (Canceled):

12. (Previously presented): An apparatus according to claim 24, wherein the data

receiving and analyzing device is arranged to calculate the rate of change in the reducing milk

flow rate in order to determine step changes in the milk flow rate.

13. (Previously presented): An apparatus according to claim 24, wherein the data

receiving and analyzing device counts the number of steps in the reducing milk flow rate and

generates a signal if less than four steps are counted.

Claim 14: (Canceled):

15. (Previously presented): An apparatus according to claim 26, wherein the data

receiving and analyzing device calculates a ratio of the peak flow duration to the peak flow rate

and generates an output when the calculated ratio exceeds a predicted value by a predetermined

amount.

16. (Previously presented): An apparatus according to claim 15, wherein the data

receiving and analyzing device compares the peak flow rate and the duration at the flow rate with

respective predicted values, and generates an output when the peak flow rate deviates

significantly from the predicted peak flow rate but the peak flow duration remains within

acceptable limits of the predicted peak flow duration.

17. (Previously presented): An apparatus according to claim 24, wherein the data

receiving and analyzing device includes a memory for storing the predicted relationship between

DB03/800738.0009/9592663.1 IS08

3

Docket No.: 800738-0009

the milk flow rate and the time from commencement of milking for an animal derived from data

collected during one or more previous milkings of the same animal.

18. (Previously presented): A apparatus according to claim 24, wherein the milk

flow meter includes means to collect and compress milk flow data into data packages and to

transfer the data packages to the data receiving and analyzing device at intervals.

19. (Previously presented): An apparatus according to claim 18, wherein the data

receiving and analyzing device receives data packages from at least two milk meters and

includes means for decompressing the data packages for analysis and/or display of the data.

20. (Currently amended): A method according to any one of claim 23, wherein

milking conditions, namely the milking vacuum level, the period of hormone stimulation

preparatory to milking, and/or the time of teat cup detachment at the end of milking, for a

subsequent milking of the animal are determined in accordance with milk flow rate data

generated during the milking of the same animal.

Claims 21 and 22: (Canceled):

23. (Currently amended): A method of milking animals comprising measuring

the total milk flow from all the teats of the udder of an animal being milked, the respective milk

flows from the respective teats being brought together and the total milk flow being measured

using a single milk meter device adapted for generating which generates data representative of

the measured total milk flow rate, and analyzing said-data using an analyzer device to detect an

abnormal milk flow from one a single teat indicated by a predetermined departure from a

predicted relationship between the milk flow rate and the time from commencement of milking

and generate an output in response to said departure signaling that medical inspection of the

Docket No.: 800738-0009

animal is advisable, wherein the detected departure is a departure from a predicted stepped

reduction in the milk flow rate towards the end of the milking procedure for the animal.

24. (Currently amended): An apparatus for milking animals comprising, a milk

meter device adapted for measuring which measures the total milk flow from all the teats of the

udder of an animal being milked and generating generates data representative of the measured

total milk flow rate, and an analyzer device for receiving which receives said data and analyzing

analyzes the data to detect an abnormal milk flow from one teat indicated by a predetermined

departure from a predicted relationship between the milk flow rate and the time from

commencement of milking and generate an output in response to said departure signaling that

medical inspection of the animal is advisable, wherein the detected departure is a departure from

a predicted stepped reduction in the milk flow rate towards the end of the milking procedure for

the animal.

25. (Previously presented): A method of milking animals as set forth in claim 23,

wherein the analysis includes determining a peak flow rate at which the flow rate remains

substantially level for a major part of the animal milking procedure, and determining the duration

of the milk flow at the peak flow rate.

26. (Previously presented): An apparatus for milking animals as set forth in

claim 24, wherein the milk meter device and the analyzer device generate and analyze data to

determine a peak flow rate at which the flow rate remains substantially level for a major part of

the animal milking procedure, and determines the duration of the milk flow at the peak flow rate.

DB03/800738.0009/9592663.1 IS08

5